INTERNATIONAL SEARCH REPORT

International Application No PC1/US2004/021029

A. CLASSIF	ICATION OF SUBJECT MATTER H04L27/26				
110 /	1104227720				
According to	International Patent Classification (IPC) or to both national classification	on and IPC			
B. FIELDS S		or and IFO			
Minimum doo	cumentation searched (classification system followed by classification H04L	symbols)			
1.0,	11042				
Documentati	on searched other than minimum documentation to the extent that suc	ch documents are included in the fields sea	arched		
Electronic da	ata base consulted during the International search (name of data base	and, where practical, search terms used)			
EPO-Int	ternal, INSPEC				
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Category °	Citation of document, with Indication, where appropriate, of the relevance	vant passages	Relevant to claim No.		
χ	SUMEI SUN; WIEMER, I.; HO, C.K.; 7	T.1UIING	1-34		
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	estimation for MIMO OFDM" WIRELESS COMMUNICATIONS AND NETWOR	PKING			
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	March 2003 (2003-03-20) pages 38-4 XP002304707	43,			
	abstract				
	page 41, last paragraph - page 42	,			
i i	paragraph 1				
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		1			
Y Further documents are listed in the continuation of box C. Patent family members are listed in annex.					
° Special ca	ategories of cited documents :	"T" later document published after the Inte			
"A" document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
filing	uale	(* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to			
"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "V" document of national representations and invention involve an inventive step when the document is taken alone which is cited to establish the publication date of another "V" document of national representations are inventive step when the document is taken alone					
"O" docum	on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or means	cannot be considered to involve an in document is combined with one or me	ventive step when the ore other such docu-		
P docum	nent published prior to the international filing date but	ments, such combination being obvious in the art.	•		
	actual completion of the international search	*&* document member of the same patent Date of mailing of the international sea			
	·	-	101110		
	9 November 2004	19/11/2004			
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer			
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	V V			
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.					
Category	oration of document, with indication, where appropriate, of the relevant passages	J ^H	elevant to claim No.		
A	MYEONGCHEOL SHIN ET AL: "A new training symbol structure to enhance the performance of channel estimation for mimo-ofdm systems" 2003 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING. PROCEEDINGS. (ICASSP). HONG KONG, APRIL 6 - 10, 2003, IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING (ICASSP), NEW YORK, NY: IEEE, US, vol. VOL. 1 OF 6, 6 April 2003 (2003-04-06), pages IV397-IV400, XP010641180 ISBN: 0-7803-7663-3 the whole document		1,17,21, 26,29, 31,33		